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This circular will be sent regularly to all who apply for it.

United States Department of Agriculture,

WASHINGTON, D. C., *October 30, 1920.*

MONTHLY LIST OF PUBLICATIONS.

[OCTOBER, 1920.]

READ CAREFULLY BEFORE ORDERING.

☞Send no remittances to the U. S. Department of Agriculture.

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletins is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy unless otherwise noted.

Drug Plants Under Cultivation. By W. W. Stockberger, Physiologist in Charge, Drug, Poisonous, and Oil Plant Investigations. Pp. 50, figs. 8. Contribution from the Bureau of Plant Industry. Revised, August, 1920. **(Farmers' Bulletin 663.)** Price, 10 cents.

For general distribution.

How to Detect Outbreaks of Insects and Save the Grain Crops. By W. R. Walton, Entomologist in Charge of Cereal and Forage Insect Investigations. Pp. 24, figs. 14. Contribution from the Bureau of Entomology. Revised, August, 1920. **(Farmers' Bulletin 835).**

Suitable for general distribution.

Breeds of Dairy Cattle. By H. P. Davis, Dairy Husbandman. Dairy Division. Pp. 35, figs. 20. Contribution from the Bureau of Animal Industry. Revised, September, 1920. **(Farmers' Bulletin 893.)**

Suitable for general distribution.

Brood Coops and Appliances. By D. M. Green, Animal Husbandry Division. Pp. 8, figs. 5. Contribution from the Bureau of Animal Industry, 1920. **(Farmers' Bulletin 1107.)**

Intended primarily for use of members of boys' and girls' poultry clubs.

Culling for Eggs and Market. By Rob R. Slocum, Animal Husbandry Division. Pp. 8, figs. 5. Contribution from the Bureau of Animal Industry, 1920. **(Farmers' Bulletin 1112.)**

Intended primarily for use of members of boys' and girls' poultry club.

Forestry and Farm Income. By Wilbur R. Mattoon, Extension Specialist in Forestry. Pp. 35, figs. 13. Contribution from the Forest Service, 1920. **(Farmers' Bulletin 1117.)**

Shows the increase in the farm income resulting from scientific management of farm woodlands.

Citrus Fruit Growing in the Gulf States. By E. D. Vosburg, Scientific Assistant, Office of Horticultural and Pomological Investigations. Pp. 45, figs. 12. Contribution from the Bureau of Plant Industry. September, 1920. **(Farmers' Bulletin 1122.)**

This bulletin contains information on the chief problems encountered by newcomers and prospective growers in starting and maintaining a citrus grove in the Gulf States. The selection of locality and site, choice of varieties, cultural methods, and the business aspects of citrus-fruit growing are among the more important problems considered.

Planning the Farmstead. By M. C. Betts and W. R. Humphries, Division of Rural Engineering. Pp. 24, figs. 8. Contribution from the Bureau of Public Roads, 1920. **(Farmers' Bulletin 1132.)**

The object of this bulletin is to set forth general principles involved in planning the arrangement of the buildings of the farmstead in their relation to one another.

Feeding Garbage to Hogs. By F. G. Ashbrook, Animal Husbandry Division, and A. Wilson, formerly of Animal Husbandry Division. Pp. 26, figs. 16. Contribution from the Bureau of Animal Industry, 1920. **(Farmers' Bulletin 1133.)**

This bulletin sets forth the general principles necessary for success in feeding garbage.

The Beef Calf: Its Growth and Development. By E. W. Sheets, Animal Husbandry Division. Pp. 32, figs. 34. Contribution from the Bureau of Animal Industry, 1920. **(Farmers' Bulletin 1135.)**

Issued as a guide in developing beef calves and is intended primarily for the use of boys' and girls' clubs.

Growing Crimson Clover. By L. W. Kephart, Scientific Assistant, Office of Forage-Crop Investigations. Pp. 20, figs. 8. Contribution from the Bureau of Plant Industry, 1920. **(Farmers' Bulletin 1142.)**

A revision of Farmers' Bulletin 550. Suitable for distribution in the Middle Atlantic and Southeastern States.

Cowpeas: Culture and Varieties. By W. J. Morse, Agronomist, Office of Forage-Crop Investigations. Pp. 26, figs. 10. Contribution from the Bureau of Plant Industry. September, 1920. **(Farmers' Bulletin 1148.)**

Supersedes Farmers' Bulletin 318 and is suitable for distribution in the Southern States.

Waterproofing and Mildewproofing of Cotton Duck. By H. P. Holman, Assistant Chemist, B. S. Levine, Mycologist, and T. D. Jarrell, Junior Chemist, Leather and Paper Laboratory. Pp. 13, figs. 15. Contribution from the Bureau of Chemistry. October, 1920. **(Farmers' Bulletin 1157.)**

Suitable for general distribution.

Poison Ivy and Poison Sumac and Their Eradication. By C. V. Grant, formerly of the Office of Drug, Poisonous, and Oil Plant Investigations, and A. A. Hansen, Office of Forage-Crop Investigations. Pp. 16, figs. 6. Contribution from the Bureau of Plant Industry. October, 1920. **(Farmers' Bulletin 1166.)**

Suitable for general distribution.

DEPARTMENTAL BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Forestry Lessons on Home Woodlands. By Wilbur R. Mattoon, Extension Specialist in Forestry, Forest Service, and Alvin Dille, Specialist in Agricultural Education, States Relations Service. Pp. 46, figs. 19. Contribution from the States Relations Service. (Professional Paper.) September 30, 1920. **(Department Bulletin 863.)** Price, 15 cents.

Prepared for teachers in elementary agriculture.

The Inheritance of the Length of Internode in the Rachis of the Barley Spike. By H. K. Hayes, College of Agriculture, University of Minnesota, and Henry V. Harlan, Agronomist in Charge of Barley Investigations, Office of Cereal Investigations. Pp. 26, pls. 2, figs. 2. Contribution from the Bureau of Plant Industry. (Professional Paper.) September 30, 1920. **(Department Bulletin 869.)** Price, 5 cents.

Effect of Winter Rations on Pasture Gains of Yearling Steers. By E. W. Sheets and R. H. Tuckwiller, Animal Husbandry Division. Pp. 20, figs. 8. Contribution from the Bureau of Animal Industry. October 20, 1920. **(Department Bulletin 870.)** Price, 5 cents.

A report on results of experiments made in West Virginia to ascertain the effect of different wintering rations upon subsequent pasture gains and to determine the best method and the cost of raising beef cattle in West Virginia. These results apply also to adjoining States.

Manufacturing and Laboratory Tests to Produce an Improved Cotton Airplane Fabric. By Fred Taylor, formerly Cotton Technologist, and D. E. Earle, Specialist in Cotton Classing. Pp. 48, figs. 23. Contribution from the Bureau of Markets. (Professional Paper.) October 9, 1920. **(Department Bulletin 882.)** Price, 10 cents.

Gives results of experiments with different varieties of cotton in the manufacture of cloth for airplane wing coverings.

Utilization of Sycamore. By W. D. Brush, Scientific Assistant. Pp. 24, pls. 4, figs. 3. Contributon from the Forest Service. October 12, 1920. **(Department Bulletin 884.)** Price, 5 cents.

This bulletin gives information on the supply of sycamore, on the conditions attendant on its manufacture, and on how it may be used most advantageously.

Spotted Apple-Tree Borer. By Fred E. Brooks, Entomologist, Deciduous-Fruit Insect Investigations. Pp. 12, pls. 5, fig. 1. Contribution from the Bureau of Entomology. October 21, 1920. **(Department Bulletin 886.)** Price, 5 cents.

Describes the life history and habits of this insect and suggests methods of control.

Pear Borer. By Fred E. Brooks, Entomologist, Deciduous-Fruit Insect Investigations. Pp. 8, pls. 3. Contribution from the Bureau of Entomology. September 29, 1920. **(Department Bulletin 887.)** Price, 5 cents.

Describes an insect which also attacks the apple, and suggests methods of control.

Results of Experiments with Miscellaneous Substances Against Chicken Lice and the Dog Flea. By W. S. Abbott, Entomologist, Enforcement Insecticide Act. Pp. 15. Contribution from the Bureau of Entomology. (Professional Paper.) October 13, 1920. **(Department Bulletin 888.)** Price, 5 cents.

Describes results of tests of certain proprietary insecticides against chicken lice and the dog flea.

Clover Stem-Borer as an Alfalfa Pest. By V. L. Wildermuth, Entomological Assistant, and F. H. Gates, Scientific Assistant, Cereal and Forage Insect Investigations. Pp. 25, pl. 1, figs. 6. Contribution from the Bureau of Entomology. (Professional Paper.) October 25, 1920. **(Department Bulletin 889.)** Price, 5 cents.

An account of the life history and habits of this insect and a discussion of methods of control.

Milk-Plant Equipment. By Ernest Kelly, in Charge of Market-Milk Investigations, and Clarence E. Clement, Market-Milk Specialist, Dairy Division. Pp. 42, figs. 23. Contribution from the Bureau of Animal Industry. October 7, 1920. **(Department Bulletin 890.)** Price, 15 cents.

This bulletin points out some of the more important economic and sanitary problems in the handling and distribution of milk.

The Beet Leaf-Beetle. By F. H. Chittenden, Entomologist, and H. O. Marsh, Scientific Assistant, Truck-Crop Insect Investigations. Pp. 24, pls. 9. Contribution from the Bureau of Entomology. (Professional Paper.) October 25, 1920. **(Department Bulletin 892.)** Price, 15 cents.

Gives life history of this insect and suggests methods of control.

Manual of Design and Installation of Forest Service Water Spray Dry Kiln. By L. V. Teesdale, Engineer in Forest Products. Pp. 47, figs. 13. Contribution from the Forest Service. (Professional Paper.) October 18, 1920. **(Department Bulletin 894.)** Price, 10 cents.

Describes a kiln in which the temperature, humidity, and circulation can be regulated independently of the others.

The Western Cabbage Flea-Beetle. By F. H. Chittenden and H. O. Marsh, Truck-Crop Insect Investigations. Pp. 21, pl. 1. Contribution from the Bureau of Entomology. (Professional Paper.) October 22, 1920. **(Department Bulletin 902.)** Price, 5 cents.

Describes the life history and habits of this insect and suggests methods of control.

MISCELLANEOUS.

Report of the Alaska Agricultural Experiment Stations, 1918. Pp. 104, pls. 10. September 28, 1920. Price, 15 cents.

Report of the Hawaii Agricultural Experiment Station, 1919. Pp. 73, pls. 10. September 10, 1920. Price, 15 cents.

Report of the Porto Rico Agricultural Experiment Station, 1918. Pp. 24, pls. 2. September 17, 1920. Price, 5 cents.

Same, 1919. Pp. 37, pls. 4. October 15, 1919. Price, 5 cents.

Forest Trails and Highways of the Mount Hood Region, Oregon National Forest, Oregon. Pp. 32, il. Contribution from the Forest Service. 1920. **(Department Circular 105.)** Price, 10 cents.

A System of Field and Office Records for County Extension Workers. By M. C. Wilson, Agriculturist, County Agent Work, Office of Extension Work North and West. Pp. 13, figs. 6. Contribution from the States Relations Service. October, 1920. **(Department Circular 107.)** Price, 5 cents.

Chicory, Control and Eradication. By Albert A. Hansen, Agronomist, Weed Investigations, Office of Forage-Crop Investigations. Pp. 4, figs. 1. Contribution from the Bureau of Plant Industry. 1920. **(Department Circular 108.)**

Forcing and Blanching Dasheen Shoots. By Robert A. Young, Plant Introducer. Pp. 6, figs. 5. Contribution from the Bureau of Plant Industry. 1920. **(Department Circular 125.)** Price, 5 cents.

The Manufacture and Use of Peanut Butter. By H. C. Thompson, formerly Horticulturist, Horticultural and Pomological Investigations. Pp. 16, figs. 6. Contribution from the Bureau of Plant Industry. 1920. **(Department Circular 128.)** Price, 5 cents.

Milk for the Family. Pp. 4, il. Contribution from the Dairy Division and the Office of Home Economics. 1920. **(Department Circular 129.)**

The Hawkweeds, or Paintbrushes. By Albert A. Hansen, Agronomist in Weed Investigations. Pp. 7, figs. 2. Contribution from the Bureau of Plant Industry. October, 1920. **(Department Circular 130.)** Price, 5 cents.

A Mountain Vacation Land: The Washington National Forest. Pp. 10, il. Contribution from the Forest Service. **(Department Circular 132.)** Price, 5 cents.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 16, No. 13. Contents and Index of Volume 16. Pp. xl–351–357. March 31, 1920.

☞NOTE.—Volumes 1 to 4 of the Journal of Agricultural Research were published monthly, volumes 5 to 16 weekly, volume 17 monthly, and volumes 18 is being issued semi-monthly. The Journal is distributed free *only* to the libraries of agricultural colleges and experiment stations, to large universities, technical schools, and such institutions as make suitable exchanges with the department. It will not be sent free to individuals. The Superintendent of Documents will receive subscriptions for this publication, the price being $1.50 per year for domestic circulation and $2 for foreign circulation.

Experiment Station Record. Vol. 43, No. 4. September, 1920. E. W. Allen, Ph. D., Editor. Pp. 301–400. Price, 15 cents.

Same, Vol. 43, No. 5. October, 1920. Pp. 401–500. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

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The Monthly Crop Reporter. Vol. 6. No. 10. October, 1920. Pp. 109–120. (Bureau of Crop Estimates.) Price, 25 cents a year.

Contains data relating to agriculture, including estimates of acreage, conditions, yields, prices, and value of crops and live stock.

ANNOUNCEMENT.—Because of the small fund available for printing, it has been found necessary to drop from the mailing list of the Monthly Crop Reporter all names of persons who are not actively cooperating with the United States Department of Agriculture. Persons whose names are dropped may subscribe for this publication through the Superintendent of Documents, Washington, D. C., at the domestic rate of 25 cents per year, and 40 cents per year to foreign addresses, payable only by postal money order or cash. No checks accepted.

The Market Reporter. Vol. 2, Nos. 14 to 18, inclusive, October, 1920. (Bureau of Markets.) For free distribution to applicants who show the need for it.

The Market Reporter is the official marketing publication of the United States Department of Agriculture. It contains general, current, and statistical marketing information for important classes of agricultural products, both staple and perishable, which is of general interest and of permanent value alike to producers, dealers, and consumers.

Weekly News Letter.

Contains a weekly summary in popular form of the more important practical discoveries and recommendations of all bureaus of the department. Free list confined to departmental employees, official cooperators, and the press. May be purchased from the Superintendent of Documents, Government Printing Office, for 50 cents a year.

SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of St. Clair County, Alabama. By R. T. Avon Burke, of the U. S. Department of Agriculture, and N. Eric Bell, of the Alabama Department of Agriculture and Industries. Pp. 46, fig. 1, map. **(From F. O. Soils, 1917.)** Price, 15 cents.

Soil Survey of Cheyenne County, Nebraska. By H. C. Mortlock, Louis A. Wolfanger, and George W. Hearn, of the U. S. Department of Agriculture, and L. Britton, of the Nebraska Soil Survey. Pp. 39, fig. 1, map. **(From F. O. Soils, 1918.)** Price, 15 cents.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞These contain *only* information, instructions, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials, whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Federal Horticultural Board. No. 68. May, June, and July, 1920. Pp. 51–111. Oct. 22, 1920. Price, 10 cents.

Bureau of Chemistry. Supplement No. 82. [N. J. 7551–7600.] Pp. 41–80. Oct. 8, 1920. Price, 10 cents.

Same, Supplement No. 83. [N. J. 7601–7650.] Pp. 81–118. Oct. 22, 1920.

Same, Supplement No. 84. [N. J. 7651–7700.] Pp. 119–159. Oct. 29, 1920. Price, 10 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. Vol. 48, No. 7. July, 1920. Oct. 4, 1920. Pp. 379–438, figs. 24, charts 11. Price, 25 cents a copy, $2.50 a year, payable to the Superintendent of Documents.

Special Articles: The Aurora of March 22–25, 1920, and associated displays. By C. F. Brooks and H. Lyman.—Note on the Height and location of the auroral spots and belt of March 24, 1920. By C. F. Brooks and C. L. Meisinger.—Auroras of 1919 in the United States. By H. Lyman.—A simple equation of general application for the normal temperature in terms of the time of day and the day of the year. By F. L. West.—Hailstorms in Nebraska. By H. G. Carter.—Large hail that fell at Kansas City, Mo., May 14, 1920. By P. Connor.—Funnel cloud over Lake Michigan, June 29, 1920. By A. H. Ward.—A smoke arch marking an increase in wind. By A. H. Ward.—Some flying experiences in "bumpy" weather in Texas. By D. P. Carlberk.—Southerly winds at high altitudes over Lansing, Mich., during sleet storms of January, 1920. By C. G. Audrus.—Exposed steel temperatures in the Tropics. By H. G. Cornthwaite.—The climate of Japan and Formosa. By E. M. Sanders.

National Weather and Crop and Snow and Ice Bulletin. Nos. 40, 41, 42, 43, October, 1920, reporting weather and crop conditions throughout the United States. Issued weekly. Price, 25 cents a year.

NOTE.—This bulletin is furnished free of charge to public and educational institutions, libraries, newspapers, cooperative observers, weather correspondents, and to those who will post or display it for the general benefit of the public. To all others the price is 25 cents per year, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

HARLAN SMITH,
Chief, Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1920